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| Abu Dhabi Education Council |  | مجلس أبو ظبي للتعليم  |
| Aisha Bint Abi Baker Secondary School  | مدرسة عائشة بنت ابي بكر للتعليم الثانوي  |

1. A statistic that is used to measure the spread of a set data is the …

|  |  |
| --- | --- |
|    | median |
|    | mean |
|    | standard deviation |
|    | regression line |

1. The \_\_\_\_\_ is not a measure of the centre of a set of data.

|  |  |
| --- | --- |
|    | cumulative frequency |
|    | mean |
|    | mode |
|    | median |

1. Match the sets of data with their population standard deviations.

|  |  |  |  |
| --- | --- | --- | --- |
|  12, 14, 18, 20 |  | A | 3·65 |
|  5, 20, 12, 18 |  | B | 17·08 |
|  20, 21, 25, 23 |  | C | 6·75 |
| 10, 50, 30, 20 |  | D | 2·22 |

1. To calculate the mean we first need to know:

|  |  |
| --- | --- |
|    | the mode and the median |
|    | the sum of the scores and the total frequency |
|    | the sum of the scores and the median |
|    | the total frequency and the upper quartile |

1. A statistic that is used to measure the spread of a set data is the …

|  |  |
| --- | --- |
|    | mean |
|    | standard deviation |
|    | regression line |
|    | median |

1. Use this diagram to match each measure on the left with its correct value or term from the list on the right.



|  |  |  |  |
| --- | --- | --- | --- |
| IQR |  | A | 24 |
|  median |  | B | 60 |
|  Q1 |  | C | 36 |
|  Q3 |  | D | 54 |
| highest score |  | E | 25 |
|  lowest score |  | F | 74 |

1. A set of data that has the values close to the mean will have a \_\_\_\_\_.

|  |  |
| --- | --- |
|    | large IQR |
|    | small mean |
|    | small standard deviation |
|    | positive correlation |

1. If it is impossible to survey the entire population, we take a , or a smaller group.
2. This box-and-whisker plot shows the distribution of the weight of luggage carried by passengers on a certain flight. We could say it shows that, with regard to the passengers that were sampled, …



|  |  |
| --- | --- |
|    | 25% of passengers carried luggage weighing more than 19·6 kg |
|    | 75% of passengers had luggage of more than 19·6 kg |
|    | most passengers had luggage of less than 18·6 kg |
|    | 25% of passengers had luggage weighing between 17·3 kg and 19·6 kg |

1. An outlier in a set of data could be due to …

|  |  |
| --- | --- |
|    | a special case |
|    | an unusual value |
|    | all of these possibilities |
|    | a mistake |

1. Use the following data to match each measure with its correct value.

The number of people using the school canteen each recess and lunchtime was recorded as follows:

150, 170, 132, 125, 197, 145, 162, 180, 156, 120

|  |  |  |  |
| --- | --- | --- | --- |
| median |  | A | 170 |
|  Q1 |  | B | 77 |
|  Q3 |  | C | 153 |
|  IQR |  | D | 132 |
|  range |  | E | 38 |

1. To complete a box-and-whisker plot we need to have at least \_\_\_\_ pieces of data.

|  |  |
| --- | --- |
|    | six |
|    | five |
|    | three |
|    | four |

1. Match the terms on the left with their corresponding terms on the right.

|  |  |  |  |
| --- | --- | --- | --- |
|  median |  | A | Q2 |
|  interquartile range |  | B | highest score − lowest score |
|  range |  | C | Q1 |
|  middle of the lower half |  | D | Q3 |
|  middle of the upper half |  | E | Q3 − Q1 |

1. The standard deviation and the interquartile range are both used to measure the  of a set of data.
2. A set of data has been broken up into quartiles. Analysis would show that:

|  |  |
| --- | --- |
|    | 50% of the data lies below the lower quartile |
|    | 50% of the data lies above the upper quartile |
|    | 50% of the data lies between the lower and upper quartiles |
|    | 75% of the data lies below the lower quartile |

1. The "box" in a box and whisker plot contains:

|  |  |
| --- | --- |
|    | most of the data |
|    | 50% of the data |
|    | 75% of the data |
|    | 25% of the data |

1. Match the sets of data with their population standard deviations.

|  |  |  |  |
| --- | --- | --- | --- |
| 12, 14, 18, 20 |  | A | 3·65 |
| 5, 20, 12, 18 |  | B | 17·08 |
| 20, 21, 25, 23 |  | C | 6·75 |
| 10, 50, 30, 20 |  | D | 2·22 |

1. A  contains 25% of a set of data.
2. The heights of a group of Grade 10 students were measured as follows: 145, 155, 161, 153, 170, 164, 174, 146, 153 and 159 cm. Match the statistic on the left with its correct value for this data from the list on the right.

|  |  |  |  |
| --- | --- | --- | --- |
| mean |  | A | 1580 |
|  n |  | B | 158 |
|  Σ*x* |  | C | 10 |
|  median |  | D | 157 |
|  mode |  | E | 153 |